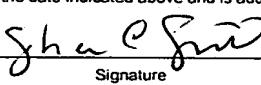


FORM PTO-1390 (REV. 10-2003) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NO. 4300.014500
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 107512008
INTERNATIONAL APPLICATION NO. PCT/US03/12324	INTERNATIONAL FILING DATE April 21, 2003	PRIORITY DATE CLAIMED April 19, 2002
TITLE OF INVENTION rAAV VECTOR-BASED COMPOSITIONS AND METHODS FOR THE PREVENTION AND TREATMENT OF MAMMALIAN DISEASES		
APPLICANT(S) FOR DO/EO/US MARK A. ATKINSON, SIHONG SONG and SCOTT A. LOILER		
Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. <input checked="" type="checkbox"/> The US has been elected (Article 31). <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input checked="" type="checkbox"/> A preliminary amendment. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A power of attorney and/or change of address letter. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). <input checked="" type="checkbox"/> Other items or information: Submission of Formal Drawings (Figures 1-19C on 15 sheets); Postcard 		

CERTIFICATE OF EXPRESS MAILING	
NUMBER	EV 405388132 US
DATE OF DEPOSIT: OCTOBER 19, 2004	
I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450	
 Signature	

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/512008

INTERNATIONAL APPLICATION NO.
PCT/US03/12324ATTORNEY'S DOCKET NUMBER
4300.01450021. The following fees are submitted:**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):**

Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1110.00

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$950.00

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$790.00

International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$750.00

International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00

CALCULATIONS PTO USE ONLY

DT01 Rec'd PCT/PTO 19 OCT 2004

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$ 100.00

Surcharge of **\$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

\$ 130.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	23 - 20 =	3	x \$ 18.00
Independent Claims	10 - 3 =	7	x \$ 88.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$290.00

\$ 54.00

\$ 616.00

\$ -0-

TOTAL OF ABOVE CALCULATIONS =

\$ 900.00

Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

SUBTOTAL =

\$ 450.00

Processing fee of **\$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

\$ -0-

TOTAL NATIONAL FEE =

\$ 450.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **\$40.00** per property +

\$ -0-

TOTAL FEES ENCLOSED =

\$ 450.00

Amount to be Refunded: \$

Charged: \$

- a. A check in the amount of \$450.00 to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0786/4300.014500. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

CUSTOMER NUMBER: 23720

Mark D. Moore, Ph.D.
WILLIAMS, MORGAN & AMERSON
10333 Richmond, Suite 1100
Houston, TX 77042
(713) 934-4084
Date: October 19, 2004

SIGNATURE

Mark D. Moore, Ph.D.

NAME

42,903

REGISTRATION NUMBER

10/15/2008 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

0701 Rec'd 8:57 AM 19 OCT 2004

In re Application of:

MARK A. ATKINSON
SIHONG SONG
SCOTT A. LOILER

Serial No.: Unknown

Filed: Concurrently Herewith

For: rAAV VECTOR-BASED
COMPOSITIONS AND METHODS FOR
THE PREVENTION AND TREATMENT
OF MAMMALIAN DISEASES

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: 4300.014500

Customer No. 23720

SUBMISSION OF FORMAL DRAWINGS

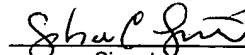
ATTN: Official Draftsman
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

EXPRESS MAILING LABEL
37 C.F.R. § 1.10

I hereby certify that this paper is being deposited with the U.S. Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" (Number EV 405388132 US) service on the date indicated and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

October 19, 2004
Date


Signature

Applicants hereby submit the formal drawings for the above-referenced application (Figures 1-19C on 15 sheets) and request that these drawings be accepted for filing.

Respectfully submitted,

WILLIAMS, MORGAN & AMERSON
CUSTOMER NO. 23720

Date: October 19, 2004


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Houston, Texas 77042
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(713) 934-7011 (facsimile)

AGENT FOR APPLICANTS